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RAW SEQUENCE LISTING DATE: 07/20/2001
PATENT APPLICATION: US/09/897,778 TIME: 14:08:00

Input Set : A:\455cl6.app.txt

Output Set: N:\CRF3\07202001\1897778.raw

```
see rage s
      4 <110> APPLICANT: Wang, Tongtong
             Marnerakis, Margarita
              Fanger, Gary R.
      7
              Vedvick, Thomas S.
      8
              Carter, Darrick
      9
              Watanabe, Yoshihiro
             Henderson, Robert A.
     10
             Peckham, David W.
     11
    12
             Fanger, Neil
     16 <120> TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
             AND DIAGNOSIS OF LUNG CANCER
    17
    20 <130> FILE REFERENCE: 210121.455C16
C--> 22 <140> CURRENT APPLICATION NUMBER: US/09/897,778
    23 <141> CURRENT FILING DATE: 2001-06-28
     25 <160> NUMBER OF SEQ ID NOS: 467
     27 <170> SOFTWARE: FastSEQ for Windows Version 4.0
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     30 <211> LENGTH: 315
     31 <212> TYPE: DNA
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     36 <222> LOCATION: 236, 241
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    42 ttcatctcca qcaqaqacaa cqqaqqaqqc tcccaccaqq acqqttctca ttatttatat 180
W--> 43 gttaatatgt ttgtaaactc atgtacagtt ttttttgggg gggaagcaat gggaanggta 240
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    45 aaaaaaaaaa aaaaa
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    48 <211> LENGTH: 380
    49 <212> TYPE: DNA
    50 <213> ORGANISM: Homo sapiens
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    54 atatatataa acaaatacaa aaagttttga gtggttcagc ttttttattt tttttaatgg 120
    55 cataactttt aacaacactg ctctgtaatg ggttgaactg tggtactcag actgagataa 180
    56 ctgaaatgag tggatgtata gtgttattgc ataattatcc cactatgaag caaagggact 240
    57 ggataaattc ccagtctaga ttattagcct ttgttaacca tcaagcacct agaagaagaa 300
    58 ttattggaaa ttttgtcctc tgtaactggc actttggggt gtgacttatc ttttgccttt 360
    59 gtaaaaaaaa aaaaaaaaa
    61 <210> SEQ ID NO: 3
    62 <211> LENGTH: 346
    63 <212> TYPE: DNA
    64 <213> ORGANISM: Homo sapiens
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Input Set : A:\455c16.app.txt Output Set: N:\CRF3\07202001\1897778.raw 66 <220> FEATURE: 67 <221> NAME/KEY: misc_feature 68 <222> LOCATION: 316, 317, 318, 322, 323, 326, 329, 330, 331, 336, 337, 339, 340, 342, 343 70 <223> OTHER INFORMATION: n = A, T, C or G72 <400> SEQUENCE: 3 73 ttgtaagtat acaattttag aaaggattaa atgttattga tcattttact gaatactgca 60 74 catecteace atacaecate caetttecaa taacatttaa teetttetaa aattgtaagt 120 75 atacaattgt actitetitg gattiteata acaaatatae catagactgt taattitatt 180 76 qaaqtttcct taatqqaatq agtcattttt gtcttgtgct tttgaggtta cctttgcttt 240 77 gacttccaac aatttgatça tatagtgttg agctgtggaa atctttaagt ttattctata 300 W--> 78 gcaataattt ctattmmag ammccmggmm maaaammamm ammaaa 80 <210> SEQ ID NO: 4 81 <211> LENGTH: 372 82 <212> TYPE: DNA 83 <213> ORGANISM: Homo sapiens 85 <220> FEATURE: 86 <221> NAME/KEY: misc_feature 87 <222> LOCATION: 297, 306, 332 88 <223> OTHER INFORMATION: n = A, T, C or G 90 <400> SEOUENCE: 4 91 actagtetea ttactecaga attatgetet tgtacetgtg tggetgggtt tettagtegt 60 92 tggtttggtt tggttttttg aactggtatg tagggtggtt cacagttcta atgtaagcac 120 93 tetettetee aagttgtget ttgtggggae aateattett tgaacattag agaggaagge 180 94 agttcaaget gttgaaaaga etattgetta tttttgtttt taaagaeeta ettgaegtea 240 W--> 95 tqtqqacaqt qcacqtqcct tacqctacat cttqttttct aqqaaqaaqq ggatqcfqgg 300 W--> 96 aaggantggg tgctttgtga tggataaaac gnctaaataa cacaccttta cattttgaaa 360 97 aaaacaaaac aa 99 <210> SEQ ID NO: 5 100 <211> LENGTH: 698 101 <212> TYPE: DNA 102 <213> ORGANISM: Homo sapiens 104 <220> FEATURE: 105 <221> NAME/KEY: misc_feature 106 <222> LOCATION: 8, 345, 422, 430, 433, 436, 438, 472, 481, 486, 515, 521, 107 536, 549, 553, 556, 557, 559, 568, 593, 597, 605, 611, 613, 108 616, 618, 620, 628, 630, 632, 634, 635, 639, 643, 647, 648, 109 649, 652, 654, 658, 664, 690 110 <223> OTHER INFORMATION: n = A, T, C or G 112 <400> SEQUENCE: 5 W--> 113 actagtanga tagaaacact gtgtcccgag agtaaggaga gaagctacta ttgattagag 60 114 cctaacccag gttaactgca agaagaggcg ggatactttc agctttccat gtaactgtat 120 115 gcataaagcc aatgtagtcc agtttctaag atcatgttcc aagctaactg aatcccactt 180 116 caatacacac tcatgaactc ctgatggaac aataacaggc ccaagcctgt ggtatgatgt 240 117 gcacacttgc tagactcaga aaaaatacta ctctcataaa tgggtgggag tattttgggt 300 W--> 118 gacaacctac tttgcttggc tgagtgaagg aatgatattc atatmítcat ttattccatg 360 119 gacatttagt tagtgctttt tatataccag gcatgatgct gagtgacact cttgtgtgtata 420 W--> 120 tntccaaath tthgthchgt cgctgcacat atctgaaatc ctatattaag antttcccaa 480 W--> 121 natgangtee etggttttte eacgecactt gatengteaa ngateteace tetgthtgte 540

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PATENT APPLICATION: US/09/897,778 TIME: 14:08:00 Input Set : A:\455c16.app.txt Output Set: N:\CRF3\07202001\I897778.raw W--> 122 ctaagacent ctnetnnamig, gttagacngg, acctette teeetteeg aanaathaag 600 W--> 123 tgtgngaaga nancenenen ecceettien, thenneeting congetinine enentgtingg 660 W--> 124 gggmgccgcc cccgcggggg gacccccccm ttttcccc 126 <210> SEQ ID NO: 6 127 <211> LENGTH: 740 128 <212> TYPE: DNA 129 <213> ORGANISM: Homo sapiens 131 <220> FEATURE: 132 <221> NAME/KEY: misc_feature 133 <222> LOCATION: 82, 406, 426, 434, 462, 536, 551, 558, 563, 567, 582, 584, 592, 638, 651, 660, 664, 673, 675, 697, 706, 711, 715, 716, 717, 723, 724, 725, 733 136 <223> OTHER INFORMATION: n = A,T,C or G 138 <400> SEQUENCE: 6 139 actagtcaaa aatgctaaaa taatttggga gaaaatattt tttaagtagt gttatagttt 60 W--> 140 catgittate tittattatg intigigaag tigigtetti teactaatta eetataetat 120 141 gccaatattt ccttatatct atccataaca tttatactac atttgtaaga gaatatgcac 180 142 gtgaaactta acactttata aggtaaaaat gaggtttcca agatttaata atctgatcaa 240 143 gttcttgtta tttccaaata gaatggactt ggtctgttaa ggggctaagg gagaagaaga 300 144 agataaggtt aaaagttgtt aatgaccaaa cattctaaaa gaaatgcaaa aaaaaattta 360 W--> 145 ttttcaagcc ttcgaactat ttaaggaaag caaaatcatt tcctanatgc atatcatttg 420 W--> 146 tgagantttc tcantaatat cctgaatcat tcatttcagc tnaggcttca tgttgagtcg 480 W--> 147 atatgtcatc tagggaaagt ctatttcatg gtccaaacct gttggcatag ttggtnaggc 540 W--> 148 tttcctttaa ńtgtgaańta ttnacangaa attttctctt thanagttct tnatagggtt 600 W--> 149 aggggtgtgg gaaaagette taacaatetg tagtgttneg tgttatetgt neagaacean 660 W--> 150 aatmacggat cgmangaagg actgggtcta tttacangaa cgaatnatct ngttmmntgt 720 W--> 151 gtnnncaact congggagec 153 <210> SEQ ID NO: 7 154 <211> LENGTH: 670 155 <212> TYPE: DNA 156 <213> ORGANISM: Homo sapiens 158 <220> FEATURE: 159 <221> NAME/KEY: misc_feature 160 <222> LOCATION: 265, 268, 457, 470, 485, 546, 553, 566, 590, 596, 613, 624, 639, 653, 659, 661 162 <223> OTHER INFORMATION: n = A, T, C or G 164 <400> SEQUENCE: 7 165 gctggggagc tcggcatggc ggtccccgct gcagccatgg ggccctcggc gttgggccag 60 166 ageggeeeeg getegatgge eeegtggtge teagtgagea geggeeegte gegetaegtg 120 167 cttgggatgc aggagetgtt eeggggeeae ageaagaeeg egagtteetg gegeaeageg 180 168 ccaaggtgca ctcggtggcc tggagttgcg acgggcgtcg cctacctcgg ggtcttcgac 240 W--> 169 aagacgccac gtcttcttgc tgganaanga ccgttggtca aagaaaacaa ttatcgggga 300 170 catggggata gtgtggacca ctttgttggc atccaagtaa tcctgaccta tttgttacgg 360 171 cgtctggaga taaaaccatt cgcatctggg atgtgaggac tacaaaatgc, attgccactg 420 W--> 172 tgaacactaa aggggagaac attaatatct gctggantcc tgatgggcan accattgctg 480 W--> 173 tagenacaag gatgatgtgg tgaetttatt gatgccaaga aaccccgttc caaagcaaaa 540 W--> 174 aaacanttcc aanttcgaag tcaccnaaat ctcctggaac aatgaacatn aatatttct 600 W--> 175 tectgacaat ggńccttggg tgtńtcacat cctcagetńc cccaaaactg aancetgtńc 660 W--> 176 natccaccc

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Input Set : A:\455cl6.app.txt Output Set: N:\CRF3\07202001\I897778.raw 178 <210> SEQ ID NO: 8 179 <211> LENGTH: 689 180 <212> TYPE: DNA 181 <213> ORGANISM: Homo sapiens 183 <220> FEATURE: 184 <221> NAME/KEY: misc_feature 185 <222> LOCATION: 253, 335, 410, 428, 448, 458, 466, 479, 480, 482, 483, 485, 488, 491, 492, 495, 499, 500, 502, 503, 512, 516, 524, 525, 186 526, 527, 530, 540, 546, 550, 581, 593, 594, 601, 606, 609, 187 610, 620, 621, 622, 628, 641, 646, 656, 673 188 189 <223> OTHER INFORMATION: n = A, T, C or G 191 <400> SEQUENCE: 8 192 actagtatct aggaatgaac agtaaaagag gagcagttgg ctacttgatt acaacagagt 60 193 aaatgaagta ctggatttgg gaaaacctgg ttttattaga acatatggaa tgaaagccta 120 194 cacctagcat tgcctactta gccccctgaa ttaacagagc ccaattgaga caaacccctg 180 195 gcaacaggaa attcaaggga gaaaaagtaa gcaacttggg ctaggatgag ctgactccct 240 W--> 196 tagagcaaag ganagacage ceccattace aaataccatt tttgeetggg gettgtgeag 300 W--> 197 ctggcagtgt tcctgcccca gcatggcacc ttatngtttt gatagcaact/ tcgttgaatt 360 W--> 198 ttcaccaact tattacttga aattataata tagcctgtec gtttgcfgtm tccaggctgt/420 W--> 199 gatatathtt cctagtggtt tgactttmaa aataaatmag gtttantttt ctccccccnn 480 W--> 200 cnntnctncc inteneteni cnnteccccc enetengtee teennintti gggggggeen 540 W--> 201 occconeggi ggacccccct/tkggtccctt agtggaggtt natggcgcct gginttatcc 600 W--> 202 nggcchtann tttecccgtn nnaaatgntt ccccctccca ntcccnccac ctcaancegg 660 W--> 203 aagcctaagt ttntaccctg ggggtcccc 205 <210> SEQ ID NO: 9 206 <211> LENGTH: 674 207 <212> TYPE: DNA 208 <213> ORGANISM: Homo sapiens 210 <220> FEATURE: 211 <221> NAME/KEY: misc_feature 212 <222> LOCATION: 602, 632, 639, 668 213 <223> OTHER INFORMATION: n = A, T, C or G 215 <400> SEQUENCE: 9 216 gtccactctc ctttgagtgt actgtcttac tgtgcactct gtttttcaac tttctagata 60 217 taaaaaatgc ttgttctata gtggagtaag agctcacaca cccaaggcag caagataact 120 218 gaaaaaagcg aggctttttt gccaccttgg taaaggccag ttcactgcta tagaactgct 180 219 ataageetga agggaagtag etatgagaet ttecattttt ettagttete eeaatagget 240 220 ccttcatgga aaaaggcttc ctgtaataat tttcacctaa tgaattagca gtgtgattat 300 221 ttctgaaata agagacaaat tgggccgcag agtcttcctg tgatttaaaa taaacaaccc 360 222 aaagttttgt ttggtcttca ccaaaggaca tactctaggg ggtatgttgt tgaagacatt 420 223 caaaaacatt agctgttctg tettteaatt teaagttatt ttggagaetg eeteeatgtg 480

224 agttaattac tttgctctgg aactagcatt attgtcatta tcatcacatt ctgtcatcat 540
225 catctgaata atattgtgga tttccccctc tggttgcatg ttcttttgac tcctctggga 600
W--> 226 anaaatgtca aaaaaaaagg tcgatctact cngcaaggnc.catctaatca ctgcgctgga 660

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229 <210> SEQ ID NO: 10 230 <211> LENGTH: 346 231 <212> TYPE: DNA

232 <213> ORGANISM: Homo sapiens

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Input Set : A:\455c16.app.txt

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     236 <222> LOCATION: 320, 321, 322, 325, 326, 328, 329, 330, 332, 333, 334, 335,
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     243 ccttaagtgt ttctgtcatt gttcaagtgt attttctgta acagaaacat atttggaatg 180
     244 tttttctttt ccccttataa attgtaattc ctgaaatact gctgctttaa aaagtcccac 240
     245 tgtcagatta tattatctaa çaattgaata, ttgtaaatat aqttgtctta cctctcaata 300
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     249 <211> LENGTH: 602
     250 <212> TYPE: DNA
     251 <213> ORGANISM: Homo sapiens
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     256 tgcttccctt tatctggaat gtggcattag cttttttatt ttaaccctct ttaattctta 180
     257 ttcaattcca tgacttaagg ttggagagct aaacactggg atttttggat aacagactga 240
     258 cagttttgca taattataat cggcattgta catagaaagg atatggctac cttttgttaa 300
     259 atctgcactt tctaaatatc aaaaaaggga aatgaagtta taaatcaatt tttgtataat 360
     260 ctgtttgaaa catgagtttt atttgcttaa tattagggct ttgccccttt tctgtaagtc 420
     261 tcttgggatc ctgtgtagaa ctgttctcat taaacaccaa acagttaagt ccattctctg 480
     262 gtactagcta caaattcggt ttcatattct acttaacaat ttaaataaac tgaaatattt 540
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     268 <212> TYPE: DNA
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     273 <222> LOCATION: 170, 279, 318, 321, 322, 422, 450, 453, 459, 467, 468, 470,
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               527, 528, 538, 542, 544, 551, 567, 568, 569, 574, 576,
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               587, 588, 589, 590, 592, 593, 598, 599, 603, 605, 608
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W--> 287 gcatgcattt gtaacatgat tagtagattt gaatatatag atgtagtatn ttggggtatct 180
     288 aggtgtttta tcattatgta aaggaattaa agtaaaggag tttgtagttg tttttattaa 240
W--> 289 atatgcatat agtagagtgc aaaaatatag caaaaatana aactaaaggt agaaaagcat 300
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Luse of n and / or Xaa has been detected in the Sequence Listing. Review the Sequence Listing to ensure a corresponding explanation is present in the <220> to <223> fields of each sequence using n or Xaa.

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/897,778

DATE: 07/20/2001 TIME: 14:08:01

Input Set : A:\455c16.app.txt

Output Set: N:\CRF3\07202001\1897778.raw

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L:22 M:270 C: Current Application Number differs, Wrong Format
L:43 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:44 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:78 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 L:95 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L\!:\!96 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:113 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:118 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:120 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:121 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:122 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:123 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:124 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:140 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:145 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:146 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:147 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:148 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:149 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:150 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:151 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:169 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:172 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:173 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:174 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:175 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:176 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:196 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:197 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
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L:199 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:200 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:201 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:202 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:203 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:226 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:227 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L\!:\!246 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L\!:\!287 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:289 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:290 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:292 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:293 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:294 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:295 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:296 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:318 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:319 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
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